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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Toshihito MIYAMA et al.

Group Art Unit: Not Yet Assigned

Serial No : 10/554,222

(National Stage of PCT/JP2004/005885)

Examiner: Not Yet Assigned

Filed : October 24, 2005 (I.A. Filed: April 23, 2004)

For : PROTON CONDUCTING MEMBRANE, METHOD FOR  
PRODUCING THE SAME AND FUEL CELL USING THE SAME



**SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop Amendment  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

Pursuant to 37 C.F.R. § 1.56 and 37 C.F.R. §§ 1.97-1.98 and supplemental to the Supplemental Information Disclosure Statement filed November 22, 2005 and the Information Disclosure Statement filed October 24, 2005, Applicants hereby direct the Examiner's attention to the following documents:

- (1) Kawahara M., et al. "Proton Conduction of Sulfoalkylated Polybenzimidazole Films (III)" Polymer Preprints, Japan, vol. 46, No. 9, 1997, pp. 1867-1868; Applicants note that this document is cited and discussed at page 46, third paragraph of the present application;
- (2) JP 9-40911 A, February 10, 1997; Applicants note that this document is cited and discussed at page 75, first paragraph of the present application;

- (3) U.S. Patent No. 5,902,847 (YANAGI et al.), May 11, 1999; Applicants note that this document is a family member of document (2);
- (4) JP 8-134219 A, May 28, 1996, accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 75, first paragraph of the present application;
- (5) JP 2002-30149 A, January 31, 2001, accompanied by an English language abstract thereof (provided by esp@cenet); Applicants note that this document is cited and discussed at page 75, first paragraph of the present application;
- (6) Abe Y., et al. "Preparation and Properties of Flexible Thin Films by Acid-Catalyzed Hydrolytic Polycondensation of Methyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, vol. 33, 1975, pp. 751-754, Applicants note that this document is cited and discussed at page 75, first paragraph of the present application;
- (7) Takamura N., et al. "Preparation and Properties of Polysilsesquioxanes: Polysilsesquioxanes and Flexible Thin Films by Acid-Catalyzed Controlled Hydrochloric Polycondensation of Methyl- and Vinyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, vol. 37, 1979, pp. 1017-1026; Applicants note that this document is cited and discussed at page 75, first paragraph of the present application.

Copies of the above-listed documents (with the exception of the U.S. Patent) together with a completed copy of the Form 1449 listing these documents are enclosed. Accordingly, the Examiner is requested to consider these documents and to indicate such consideration by returning a signed and initialed copy of the Form PTO 1449 with the next official communication.

Further to the U.S. Patent and Trademark Office's decision to partially waive the requirements under 37 C.F.R. § 1.98 (a)(2)(i) and (iii), a copy of the U.S. patent cited above is not enclosed herewith. However, if a copy is needed, the Examiner is respectfully requested to contact the undersigned.

Applicant notes that an Office Action on the merits has not issued in the present application, and thus no fee is believed necessary to ensure consideration of the submitted material.

If there are any questions, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,  
Toshihito MIYAMA et al.

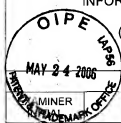


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FORM PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P28518Application No.  
10/554,222INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)Applicant  
Toshihito MIYAMA et al.Filing Date  
I. A. Filed October 24, 2005Group  
Not Yet Known

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/AE/	5 9 0 2 8 4 7	05/11/99	YANAGI et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/AE/	0 - 0 4 0 0 1 1	02/10/97	JAPAN			
/AE/	8 - 1 3 4 2 1 9	05/28/96	JAPAN			
/AE/	2 0 0 2 - 0 3 0 1 4 9	01/31/01	JAPAN			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/AE/	1	English Language Abstract of JP 8-134219.
/AE/	2	English Language Abstract of JP 2002-030149.
	3	<del>Kawahara M., et al. "Proton-Conduction of Sulfonated Polybenzimidazole Films (III): Polymer Preprints, Japan, Vol. 46, No. 9, 1997, pp. 1867-1868.</del>
/AE/	4	Abe Y., et al. "Preparation and Properties of Flexible Thin Films by Acid-Catalyzed Hydrolytic Polycondensation of Methyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 33, 1975, pp. 751-754.
/AE/	5	Takamura N., et al. "Preparation and Properties of Polysilsesquioxanes: Polysilsesquioxanes and Flexible Thin Films by Acid-Catalyzed Controlled Hydrochloric Polycondensation of Methyl- and Vinyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 37, 1979, pp. 1017-1026.

EXAMINER /Alix Echelmeyer/

DATE CONSIDERED 09/02/2009

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.